

DERWENT-ACC-NO: 1999-134634

DERWENT-WEEK: 200042

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TITLE: Preparing stanol fatty acid ester(s)  
mixtures - comprises in-esterification of  
hardened sterol fatty acid ester(s) for use in food products  
e.g. low fat spreads

INVENTOR: LIEVENSE, L C; VAN AMERONGEN, M P

PATENT-ASSIGNEE: UNILEVER PLC[UNIL], UNILEVER NV[UNIL],  
LIPTON DIV CONOPCO  
INC[LIPTN]

PRIORITY-DATA: 1997EP-0202597 (August 22, 1997)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	MAIN-IPC	
EP 897970 A1		February 24, 1999		E
007		C11C 003/10		
US 6106886 A		August 22, 2000		N/A
000		A23D 009/007		
CA 2245482 A		February 22, 1999		N/A
000		C07J 009/00		
ZA 9807540 A		April 26, 2000		N/A
022		C11C 000/00		

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE  
IT LI LT LU LV MC MK  
NL PT RO SE SI

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-DESCRIPTOR	APPL-NO
EP 897970A1		N/A	
1998EP-0202588		July 31, 1998	
US 6106886A		N/A	
1998US-0135722		August 18, 1998	
CA 2245482A		N/A	

1998CA-2245482                    August 21, 1998  
ZA 9807540A                    N/A  
1998ZA-0007540                    August 20, 1998

INT-CL (IPC): A23D007/00, A23D007/01, A23D009/007,  
A23D009/013,  
A23L001/24, C07J009/00, C11C000/00, C11C003/10

ABSTRACTED-PUB-NO: EP 897970A

BASIC-ABSTRACT:

A process for the preparation of stanol fatty acid esters mixtures by inesterification of stanol fatty acid esters starting material is new and comprises reacting (at least 50%) saturated fatty acid groups of starting material with a source of at least one fatty acid moiety containing at least 35% (especially 45%) polyunsaturated fatty acid (PUFA) groups.

USE - The stanol fatty acid esters are useful for producing food products (claimed), especially fat based food products to obtain lower blood cholesterol effects e.g. low fat spreads.

ADVANTAGE - The process is carried out in the absence of a solvent (claimed) and therefore is more environmentally friendly and is more cost effective as it requires less raw materials, equipment and labour.

ABSTRACTED-PUB-NO: US 6106886A

EQUIVALENT-ABSTRACTS:

A process for the preparation of stanol fatty acid esters mixtures by inesterification of stanol fatty acid esters starting material is new and comprises reacting (at least 50%) saturated fatty acid groups of starting material with a source of at least one fatty acid moiety containing at least

35% (especially 45%) polyunsaturated fatty acid (PUFA) groups.

USE - The stanol fatty acid esters are useful for producing food products (claimed), especially fat based food products to obtain lower blood cholesterol effects e.g. low fat spreads.

ADVANTAGE - The process is carried out in the absence of a solvent (claimed) and therefore is more environmentally friendly and is more cost effective as it requires less raw materials, equipment and labour.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: PREPARATION FATTY ACID ESTER MIXTURE COMPRISE  
ESTERIFICATION

HARDEN STEROL FATTY ACID ESTER FOOD PRODUCT LOW  
FAT SPREAD

DERWENT-CLASS: B01 D13 E15

CPI-CODES: B01-D02; D03-C02; D03-H01T2; E01;

CHEMICAL-CODES:

Chemical Indexing M1 \*01\*

Fragmentation Code

H714 H721 J0 J011 J2 M210 M211 M212 M213 M214  
M215 M216 M220 M221 M222 M223 M224 M225 M226 M231  
M232 M233 M262 M281 M320 M417 M423 M620 M720 M903  
M904 N161 N241 N262 N341 N411 N441 N513 N522 N523  
V795

Markush Compounds

199912-KB801-P

Chemical Indexing M5 \*02\*

Fragmentation Code

M417 M720 M903 M904 N161 N241 N262 N341 N411 N441  
N513 N522 N523 S703 S730 S732 S735 S736 S738 U500  
U501

Markush Compounds

199912-KB802-P

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1532S

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers:

C1999-039638

	Type	L #	Hits	Search Text	DBs	Time Stamp
1	BRS	L2	1178	sterol with "fatty acid"	USPAT; US-PGP UB; EPO; JPO; DERWEN T	2004/08/23 08:24
2	BRS	L3	2019	sterol with "fatty acid" with ester	USPAT; US-PGP UB; EPO; JPO; DERWEN T	2004/08/23 08:25
3	BRS	L4	780	13 and food	USPAT; US-PGP UB; EPO; JPO; DERWEN T	2004/08/23 08:25
4	BRS	L5	664	14 and (cholesterol or triglyceride)	USPAT; US-PGP UB; EPO; JPO; DERWEN T	2004/08/23 08:26
5	BRS	L6	25	15 and pufa	USPAT; US-PGP UB; EPO; JPO; DERWEN T	2004/08/23 08:37
6	BRS	L7	209	"19640"	USPAT; US-PGP UB; EPO; JPO; DERWEN T	2004/08/23 08:32
7	BRS	L8	5	"19640"	DERWEN T	2004/08/23 08:32
8	BRS	L9	3	"1405346"	DERWEN T	2004/08/23 08:56

	Comments	Error Definition	Errors
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3			0
4			0
5			0
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7			0
8			0

	Type	L #	Hits	Search Text	DBs	Time Stamp
9	BRS	L10	7	"2102112"	DERWEN T	2004/08/23 08:56
10	BRS	L11	5	"19640"	DERWEN T	2004/08/23 08:57
11	BRS	L12	18	"00139"	DERWEN T	2004/08/23 09:20
12	BRS	L13	4	"897970"	DERWEN T	2004/08/23 09:22
13	BRS	L14	12	".1004596"	DERWEN T	2004/08/23 09:57
14	BRS	L15	1	5502045.pn.	USPAT	2004/08/23 09:25
15	BRS	L16	1	"6106886"	DERWEN T	2004/08/23 09:57

	Comments	Error Definition	Errors
9			0
10			0
11			0
12			0
13			0
14			0
15			0